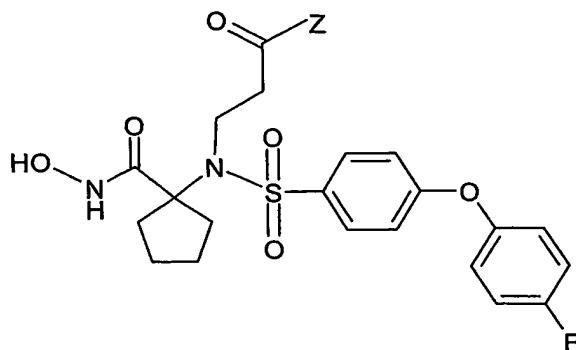


Figure 1.



Compound	Z
1.	-OH [prior art]
2.	-NH-[chelator 1]
3.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-[chelator 1]
4.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH <sub>2</sub>
5.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> Cl
6.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> S(CH <sub>2</sub> ) <sub>3</sub> F
7.	-NH-Lys(CO)NH-(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Lys-[ $\epsilon$ -chloroacetyl]-NH <sub>2</sub>
8.	-NH-Glu-NH <sub>2</sub>
9.	-NH-Lys-NH <sub>2</sub>
10.	-NH-Leu-NH <sub>2</sub>
11.	-NH-Lys-Glu-NH <sub>2</sub>
12.	-NH-Glu-Glu-NH <sub>2</sub>
13.	-NH-Leu-Glu-NH <sub>2</sub>
14.	-NH-Lys-Lys-NH <sub>2</sub>
15.	-NH-Gly-Lys-NH <sub>2</sub>
16.	-NH-Glu-Lys-NH <sub>2</sub>
17.	-NH-Leu-Lys-NH <sub>2</sub>
18.	-NH-Gly-Glu-NH <sub>2</sub>
19.	-NH-(Glu) <sub>5</sub> -Tyr-NH <sub>2</sub>
20.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr(3-iodo)-NH <sub>2</sub>
20A.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr(3- <sup>123</sup> I)-NH <sub>2</sub>
21.	-NH-(Glu) <sub>5</sub> -Tyr(3-iodo)-NH <sub>2</sub>

21A.	-NH-(Glu) <sub>5</sub> -Tyr(3- <sup>123</sup> I)-NH <sub>2</sub>
22.	-O-C <sub>6</sub> F <sub>5</sub>
23.	-NH(CH <sub>2</sub> ) <sub>2</sub> -[C <sub>6</sub> H <sub>4</sub> -4-OH]
24.	-NH(CH <sub>2</sub> ) <sub>2</sub> -[C <sub>6</sub> H <sub>3</sub> -3-I-4-OH]
24A.	-NH(CH <sub>2</sub> ) <sub>2</sub> -[C <sub>6</sub> H <sub>3</sub> -3- <sup>123</sup> I-4-OH]
25.	-NH-C <sub>6</sub> H <sub>4</sub> -4-SnBu <sub>3</sub>
26.	-NH-C <sub>6</sub> H <sub>4</sub> -4-I
30.	-Lys-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr(3-iodo)-NH <sub>2</sub>
30A.	-Lys-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr(3- <sup>123</sup> I)-NH <sub>2</sub>
31.	-Lys-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr-NH <sub>2</sub>
32.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> CONH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> -CONH-Tyr(3-iodo)-NH <sub>2</sub>
32A.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> CONH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> -CONH-Tyr(3- <sup>123</sup> I)-NH <sub>2</sub>
33.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr-NH <sub>2</sub>
34.	-Glu-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr-NH <sub>2</sub>
35.	-Glu-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr(3-iodo)-NH <sub>2</sub>
36.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> CONH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> -CONH-Tyr-NH <sub>2</sub>
37.	-(Glu) <sub>5</sub> -NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr-NH <sub>2</sub>
38.	-(Glu) <sub>5</sub> -NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr(3-iodo)-NH <sub>2</sub>
39.	-NH-Tyr-NH <sub>2</sub>
40.	-NH-Tyr(3-iodo)-NH <sub>2</sub>
41.	-(Lys) <sub>5</sub> -NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr-NH <sub>2</sub>
42.	-(Lys) <sub>5</sub> -NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH(CO)CH <sub>2</sub> OCH <sub>2</sub> CO-NH-Tyr(3-iodo)-NH <sub>2</sub>

43.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> -CONH-Tyr-NH <sub>2</sub>
44.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> -CONH-Tyr(3-iodo)-NH <sub>2</sub>
45.	-(Lys- $\alpha$ -NH <sub>2</sub> ) $\epsilon$ -COCH <sub>2</sub> O-NH <sub>2</sub>
46.	-(Lys- $\alpha$ -NH <sub>2</sub> ) $\epsilon$ -COCH <sub>2</sub> O-N=CH-(4-F-phenyl)
46B	-(Lys- $\alpha$ -NH <sub>2</sub> ) $\epsilon$ -COCH <sub>2</sub> O-N=CH-(4- <sup>18</sup> F-phenyl)
47.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> CONH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> -CONH-Lys- $\alpha$ -NH <sub>2</sub> - $\epsilon$ -COCH <sub>2</sub> O-NH <sub>2</sub>
48.	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> CONH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> -CONH-Lys- $\alpha$ -NH <sub>2</sub> - $\epsilon$ -COCH <sub>2</sub> O-N=CH-(4-F-phenyl)
48B	-NH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> CONH(CH <sub>2</sub> CH <sub>2</sub> O) <sub>11</sub> CH <sub>2</sub> CH <sub>2</sub> -CONH-Lys- $\alpha$ -NH <sub>2</sub> - $\epsilon$ -COCH <sub>2</sub> O-N=CH-(4- <sup>18</sup> F-phenyl)

Note: the abbreviation [amino acid]-NH<sub>2</sub> indicates a terminal -CONH<sub>2</sub> amide group on the amino acid carboxy terminus.

Where Chelator 1 is:

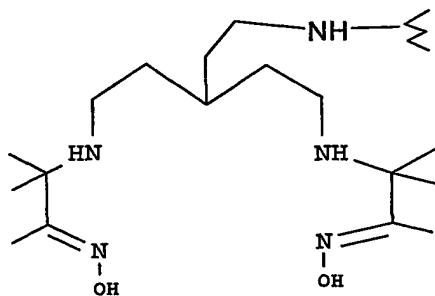


Figure 2.

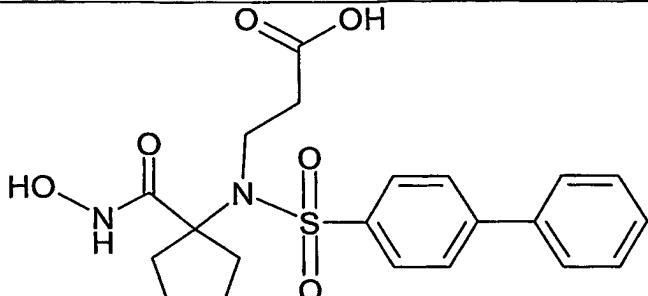
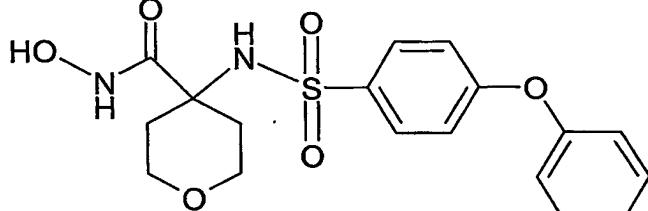
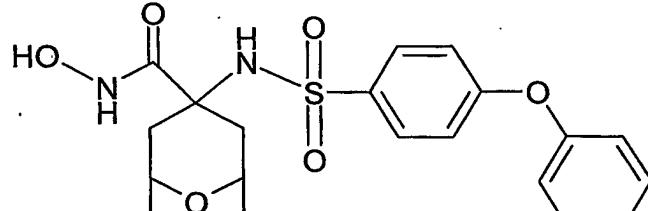
Compound	Structure
27.	 [prior art]
28.	 [prior art]
29.	 [prior art]

Figure 3: *In Vivo* Images

